

ATMOSPHERIC ELECTRICITY.

Thunder-storms occurred on the 3d, Ind., Tex., Kan.; 4th, Mich., Ill.; 5th, Ky., Fla., Tenn., Ind.; 8th, Fla.; 13th, Tex., Ill.; 16th, Kan.; 17th, Kan., Ind., T., Ill., Iowa, Neb., Mo.; 18th, Ind., T., Kan.; 19th, Tex., Kan., N. M.; 20th, Tex., "most severe thunder-storm ever known;" 21st, Tex.; 22nd, Ala.; 23rd, Tex., Ala., La.; 24th, Ala., Fla.; 27th, Tex.; 28th, Ind., T., Tex., Fla., 29th, Ind., T., Fla., Tex.; 30th, Ind., T.

Distant Lightning—was reported as follows: 3rd, Ind., T., Tex.; 4th, Ill.; 17th, Kan.; 18th, N. M.; 22d, Tex.; 24th, Ala., Ga.; 26th, Tex., and electricity intense on Pike's Peak.

Auroras.—were observed on the 3rd, in Dak.; 4th, Ga., Dak.; 5th, Dak.; 7th, Iowa, N. Y.; 8th, Iowa; 9th, Conn., Iowa; 12th, Dak.; 28th, Me.

OPTICAL PHENOMENA.

Solar Halos were observed on the 2nd, in Ill.; 3rd, Conn., Ill., Me., Ky., Vt., Wis.; 4th., La., Fla., N. J., Conn.; 5th, Cal., Vt., Neb.; 6th, Cal.; 7th, Ohio, Fla., Ga., Vt.; 8th, Tex., Iowa, S. C.; 9th, Ill., Iowa, La.; 10th, N. Y., Ill., Ind., Iowa, Ohio, Ky., Conn., Wis.; 11th, N. Y., Ohio, Conn., Wis.; 12th, Iowa, N. Y., Conn.; 13th, Cal., Ohio, Conn.; 15th, Col., Me., Neb., La.; 16th, Cal., Neb., Conn.; 17th, Cal., Conn.; 18th, Tex., Ky., N. H.; 19th, Col., Ohio; 20th, Cal., Ala., Me.; 22nd, Conn.; 23rd, Iowa, Ohio; 24th, Ohio, Conn.; 25th, Conn.; 28th, Cal., Ga.; 29th, Md., Mich., N. Y., Pa., Ohio, N. J.; 30th, Ill., Ind., Iowa, N. H.; 31st, Minn., S. C.

Lunar Halos.—8th, Tex., Cal., Iowa, Neb., Mo.; 9th, Ill., Ind., Pa., Tenn., Fla., N. J., Conn., Minn.; 10th, Dak., Neb., Ill., Ind., Iowa, Md., Ohio, Pa., Va., N. J., Fla., Mo., Cal., Idaho, Neb., Minn., Wis.; 11th, Neb., Ind., Iowa, Md., N. Y., Va., N. J., La., Mo., Ohio, Mich., Conn., Nev., Minn.; 12th, Md., Mass., Mich., N. Y., N. J., Mo., Wis., Ohio, Pa., R. I., Conn., Cal., Idaho, Nev.; 13th, Cal., N. Y., Va., Mo., Wis., N. C., Nev., Minn., Tex.; 14th, Cal., Neb., Dak., Iowa, Me., Md., Mass., Mich., N. Y., Vt., N. J., La., Mo., Minn., N. C., R. I., Conn., Cal., Minn., Wis.; 15th, Neb., Ill., Iowa, Mass., Minn., N. Y., Vt., La., Mich., Tenn., N. C., R. I., Idaho, Nev., Minn., Mo., Wis.; 16th, Neb., Ind., Ohio, Vt., Minn., Ohio, N. Y., Conn., Idaho, Nev., Wis.; 17th, Cal., Neb., Mich., Pa., Va., Ohio, N. Y., N. J., Me., Wis.; 18th, Col., Wy., Ty., Ala., Tex., Me., N. Y., Ohio, Vt., Va., Pa., Iowa, Me., Mass.; 19th, Col., Ind., T., Ala., Ohio, Va., N. J., La., Iowa, Conn., Idaho, Nev.; 20th, Col., Ala., Ga., Ill., Iowa, Neb., N. Y., Mo., Tenn., Ind., Fla., Conn., Me.; 21st, Ill., Ind., Iowa, Me., Neb., Ohio, N. J., Mass.; 22nd, Col., Ind., Kan., Va., Ohio, Conn.; 23rd, Iowa, Kan.; 24th, Ind., Iowa, Minn.; 25th, Ind., Kan.; 26th, N. Y.; 27th, N. Y.; 30th, Ga.

Mirage was observed on the 2nd in Dak. and Conn.; 3rd, Ga.; 6th, Minn., Neb.; 7th, Neb.; 8th, Kan., Neb.; 12th, Ga.; 15th, Neb., Ga.; 18th, Kan., Ga., Conn.; 20th, Conn.; 21st, Mass., Conn.; 23rd, Conn.; 24th, Kan., Conn.

MISCELLANEOUS PHENOMENA.

BOTANICAL.—*Connecticut*—New London, dandelions, daisies and dahlias, grass fresh and green; 26th; honeysuckle, pansies and quince in bloom 28th; Suffield, dandelions in bloom. *Dakota*—Pembina, willows and poplars budding during month. *Iowa*—Dubuque, 20th, lilies sprouting and grass growing; Nora Springs, pansies blooming 10th; dandelions in bloom 22nd; trees budding 23rd; Monticello, grass, rhubarb and corn growing during the month. *Indiana*—Logansport, 31st, rose bushes and maple trees budding; Vevay, 28th, japonicas blooming, roses and lilacs leafing; Milford, 18th, wild flowers in bloom. *Illinois*—Anna, strawberries in bloom, 15th; quince and lilac buds showing color, 31st; Martinsville, trees budding and leafing, 26th; shrubs and plants beginning to sprout 31st; Sterling, lilacs budding at the end of the month. *Kansas*—Creswell, 20th, winter wheat growing nicely and looking green as in spring. *Maryland*—Sandy Springs, flowers blooming throughout the month; Fallston, 23th, mountain pinks in bloom. *Massachusetts*—Fall River, flowers in bloom during the month; New Bedford, 6th, violets in bloom; Fitchburg, dandelions, apples, cherries, roses and lilacs blooming; Conway, sap running and sugar made. *Michigan*—Litchfield, dandelions and peach trees in bloom. *Missouri*, Troy, 7th, seeds of asters, hemp, mustard, &c., observed germinating in open ground; Lexington, rose, peach, lilac and other buds unfolding; Clinton, rose, peach and lilac budding, strawberries in bloom; Oregon, dandelions, and crocus growing 22nd, rose bushes budding 23rd, wheat and rye growing rapidly 25th. *New Hampshire*, Contoocookville, 30th, blossom buds of the trailing arbutus swelling; Carroll County, trailing arbutus and lilacs in bloom. *Nebraska*—Emerson, 21st, horse-radish sprouting; Plattsburgh, 20th, fruit trees budding. *New Jersey*—Freehold, 23rd, magnolia, licae, spirea, elm, apple and maple trees budding, rose bushes leafing, and dandelions in bloom throughout the month; Salem, 30th, peach trees in leaf, pear trees blooming, and rose bushes in leaf and budding; Newark, 20th, elm and maple trees budding and leafing; Moorestown, 22nd, dandelions and japonicas in bloom. *North Carolina*—Murphy, pansies, English daisies, forsythia and wild flowers in bloom during last of month. *New York*—Waterburg, 31st, dandelions in bloom; Flushing, 29th, flowers in bloom; Farmingdale, 25th to 31st, dandelions in bloom, and licae buds swollen as in spring. *Ohio*—Bellefontaine, 31st, grass growing and fruit trees budding; Urbana, 23rd, grass green and lilacs budding; 21st dandelions in bloom; Ruggles, wheat sprouting. *Oregon*—Salem, grass and pasture in excellent